

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

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GENERAL INFORMATION:

Name:	Clover Creek Brick Company
Address:	2200 Old Stephensport Road Cloverport, KY 40111
Date application received:	9/7/2007
SIC Code/SIC description:	3251, Brick Manufacturing Plant
Source ID:	21-027-00011
Agency Interest:	417
Activity:	APE20070001
Permit:	F-07-054

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM	0.98	21.77
PM10	0.98	21.77
SO2	0.74	16.43
NO2	0.49	10.99
CO	1.66	37.04
VOC	0.033	0.74

** Actual Based on Current EIS Reported Values (2006):

SOURCE DESCRIPTION:

The Clover Creek Brick Company applied to the Kentucky Division for Air Quality on September 7, 2007, to renew their current permit in Cloverport, KY. The source currently has operating permit (F-00-011) which is a brick Manufacturing Plant. Raw material in the form of shale or clay is shipped by truck to the facility. The shale or clay is then ground and screened within a building. A baghouse controls particulate emissions. The ground clay or shale is then conveyed to an extruder. A small amount of stain may then be applied to the surface of the extruded material for aesthetic purpose. The extruded material is then cut into bricks. The bricks are then sent to pre-heater and possibly one of two dryers to reduce moisture content. The pre-heater and dryers utilize excess air from the kilns. The bricks are then placed into one of two kilns. After a firing period for 24 to 48 hours, the bricks are moved from kiln and prepared for shipment. Both kilns are natural gas, direct-fired kilns and are designed to be operated continuously, 24 hrs/day and 365 days/yr. Due to the inherent physical restrictions of the kiln firing cycles, the grinding, screening, extrusion, and cutting processes will only be operated 8 hrs/day. Both kilns use a baghouse to control Particulate Matter.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

In accordance with 401 KAR 52:030 Section 10, source wide emissions of hydrogen fluoride (HF) shall not equal or exceed 10 tons/year on a twelve-month rolling average. The permittee shall demonstrate compliance with this limitation times a 90% safety factor, which would give a limit of 9 tons HF/year.

The permittee may demonstrate compliance with this limitation by calculating emissions using the

SUMMARY

CLOVER CREEK BRICK COMPANY

PAGE 3

following emission factor from AP-42, section 11.3 until completion of the required testing (Section B, Testing Requirements) using EPA Method 26A or equivalent is performed, and a facility emission factor is calculated:

$$\text{HF Emissions (tons/year)} = (0.37 \text{ lb of HF/ton fired product})(1 \text{ ton HF}/2000 \text{ lb HF})(\text{tons of product/year})$$

Note: If testing for the units indicates a facility emission factor greater than the AP-42 emission factor, Clover Creak Brick Company shall submit a revised emission factor for each unit.

OPERATIONAL FLEXIBILITY:

N/A